

STANDARD FORM NO. 64

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Eng. 8-567

Office Memorandum • UNITED STATES GOVERNMENT

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TO : The Files

DATE: 14 May 1958

FROM :

SUBJECT: Contract RD-107, Ta

1. General - A visit was made to the [redacted] on 8 May 1958. Task 5, a Radio Circuit Development project, was briefly monitored during this visit. Those present for discussions included:

2. Work Status - Present work on this task consists of hardware packaging of test vehicles for components and circuits developed under the present and prior tasks. The test vehicles consist of an agent type transmitter, receiver, and selective call decoder. Hardware fabrication is about 80% complete.

3. Delivery - Company management is pushing for early delivery at the expense of the working engineers' desire for extensive tests of the completed equipments. Comprehensive individual component and circuit tests over the -40° to -40° C. have been completed. The final engineering report would not be completed at the time of delivery. It is therefore recommended that R+D Laboratory engineers confer with [redacted] engineers relative to the new component and circuit characteristics, and establish uniform test procedures prior to equipment delivery. Delivery is presently scheduled for late May.

4. Component Production - It is anticipated that the hardware to be delivered under this task will raise the concept of design and packaging of agent type equipment to a new level. It should be pointed out, however, that the receiver, transmitter, and selective calling system have not been "productized" - that is, they do not have a low cost built-in production capability. A principal item that contributes to a high frequency stability over the -40° C to -40° C temperature range is the hand selected ferrite cores. While the ceramic laboratory at [redacted] has learned much about producing cores with a specific positive or negative temperature coefficient, the company can not presently produce uniform batches of cores with a predictable temperature coefficient. The all-point tracking condensers are a new item with no previous volume production; consequently, any low volume production could be costly.

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